TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-08-04** **Date: 11-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/11/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-04/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	9-05-2017 to 10-05-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg, Min)	278.4	225m^2/kg, Min
3	Density (gm/cc)	3.22	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP

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Prepared by
Harshitha

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-08-04** **Date: 06-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/11/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-04/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	9-05-2017 to 6-06-2017

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-08-04** **Date: 11-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/11/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-04/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-05-17
Total weight taken	:	1000 grams

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	14	14	1.4	98.6	90-100	90-100	90-100	95-100
3	2.36 mm	195	209	20.9	79.1	60-95	75-100	85-100	95-100
4	1.18 mm	211	420	42	58.0	30-70	55-90	75-100	90-100
5	600 micron	205	625	62.5	37.5	15-34	35-59	60-79	80-100
6	300 micron	192	817	81.7	18.3	5-20	8-30	12-40	15-50
7	150 micron	118	935	93.5	6.5	0-10	0-10	0-10	0-15
8	Pan	65	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-08-04** **Date: 11-05-17**

Sample ID No : 2017-05-08-04/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.05	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	5.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-08-04** **Date: 11-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer Reference	:	BBMP/EE/BTP/WO/11/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-04/02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-05-17

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP Bangalore-97

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	155	155	3.1	96.9	90-100
3	10 mm	2265	2420	48.4	51.6	25-55
4	4.75 mm	2147	4567	91.3	8.7	0-10
5	Pan	433	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-08-04** **Date: 11-05-2017**

Sample ID No : 2017-05-08-04/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.50	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.0	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-08-04** **Date: 11-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/11/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-04/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-05-17

Assistant Executive Engineer (Vidyaranyapura Sub Division BBMP, Bangalore-97

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	595	595	4.0	96.0	90-100
3	20 mm	7845	8440	56.3	43.7	30-70
4	10 mm	3895	12335	82.2	17.8	10-35
5	4.75 mm	2454	14789	98.6	1.4	0-5
6	Pan	211	15000	100.0	0	---

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-08-04** **Date: 11-05-2017**

Sample ID No : 2017-05-08-04/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.22	–

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Harshitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-08-04** **Date: 10-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/11/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-04/04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	09-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Sunvik	Fe500	10mm	0.614	562	675	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Sunvik	Fe500	10mm	Satisfactory	Satisfactory

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-08-04**	**Date: 10-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.	
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.	
Customer's Reference	:	BBMP/EE/BTP/WO/11/17-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-05-17	
Sample ID No	:	2017-05-08-04/05	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	09-05-17	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Sunvik	Fe500	12mm	0.887	581	692	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Sunvik	Fe500	12mm	Satisfactory	Satisfactory

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Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-20-02** **Date: 25-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.

Customer's Reference : BBMP/EE/BTP/WO/11/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-02/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/05/2017	25/05/2017	149.87 X 150.42 X 150.78	22543	8.152	272.8	12.1	11.6
2	PCC	M15	18/05/2017	25/05/2017	150.64 X 151.02 X 150.47	22750	8.192	261.6	11.5	
3	PCC	M15	18/05/2017	25/05/2017	150.46 X 150.44 X 150.72	22635	8.147	255.8	11.3	

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Prepared by
Harsitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2017-05-20-02 **Date: 15-06-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/11/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-05-17
Sample ID No	:	2017-05-20-02/02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/05/2017	15/06/2017	150.24 X 150.33 X 150.45	22586	8.295	404.3	17.9	18.2
2	PCC	M15	18/05/2017	15/06/2017	150.17 X 150.44 X 150.45	22592	8.175	408.9	18.1	
3	PCC	M15	18/05/2017	15/06/2017	150.47 X 150.64 X 150.42	22667	8.140	419.3	18.5	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-17-05** **Date: 22-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/11/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-05/01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M25	15/05/2017	22/05/2017	150.54 X 151.02 X 150.35	22735	8.241	391.0	17.2	17.2
2	Drain Concrete	M25	15/05/2017	22/05/2017	150.47 X 150.22 X 150.65	22604	8.145	379.7	16.8	
3	Drain Concrete	M25	15/05/2017	22/05/2017	150.45 X 149.65 X 150.55	22515	8.165	394.0	17.5	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-17-05** **Date: 12-06-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.

Customer's Reference : BBMP/EE/BTP/WO/11/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-05-17

Sample ID No : 2017-05-17-05/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/05/2017	12/06/2017	150.14 X 150.64 X 151.00	22617	8.095	529.2	23.4	23.3
2	Drain Concrete	M20	15/05/2017	12/06/2017	150.46 X 149.85 X 150.42	22546	8.211	514.1	22.8	
3	Drain Concrete	M20	15/05/2017	12/06/2017	150.78 X 150.64 X 150.34	22713	8.198	538.3	23.7	

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Prepared by
Harsitha

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 97

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CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-17-05** **Date: 22-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.

Customer's Reference : BBMP/EE/BTP/WO/11/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-05-17

Sample ID No : 2017-05-17-05/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/05/2017	22/05/2017	150.95 X 150.45 X 150.82	22710	8.175	397.4	17.5	17.0
2	Drain Concrete	M20	15/05/2017	22/05/2017	150.44 X 149.00 X 150.42	22416	8.199	383.3	17.1	
3	Drain Concrete	M20	15/05/2017	22/05/2017	150.47 X 150.32 X 150.74	22619	8.214	370.9	16.4	

Note:
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Prepared by
Harsitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL PRO BANGALORE Sig..... Date.....

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2017-05-17-05 **Date: 12-06-17**
omer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
dress	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
roject Name	:	Improvements to Roads and Drains at 11th and 12th Cross Najappa layout in Ward no.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/11/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-05/04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/05/2017	12/06/2017	150.95 X 150.45 X 150.48	22710	8.301	547.3	24.1	23.8
2	Drain Concrete	M20	15/05/2017	12/06/2017	150.22 X 150.64 X 150.24	22629	8.247	536.3	23.7	
3	Drain Concrete	M20	15/05/2017	12/06/2017	150.54 X 150.47 X 150.98	22652	8.177	532.3	23.5	

Note:
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